

H. Q. ALEXANDER.
BOX OPENER.
APPLICATION FILED DEC. 26, 1913.

1,167,143.

Patented Jan. 4, 1916.

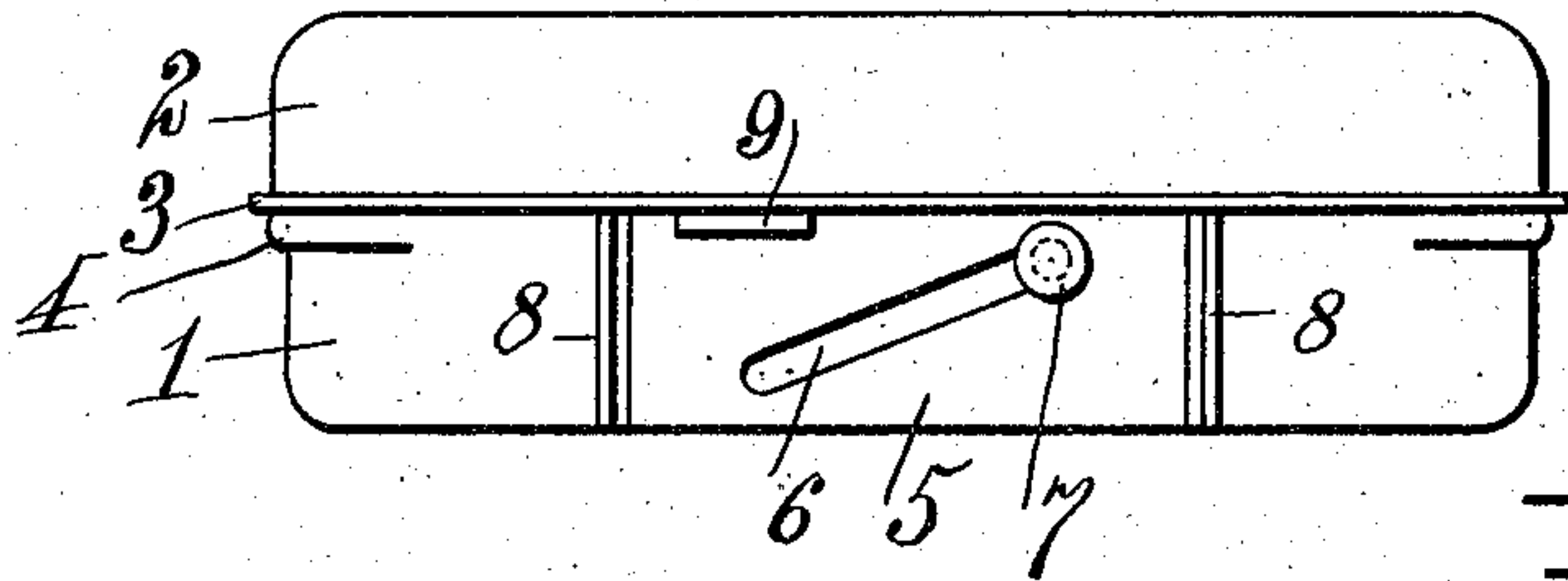


Fig. 1.

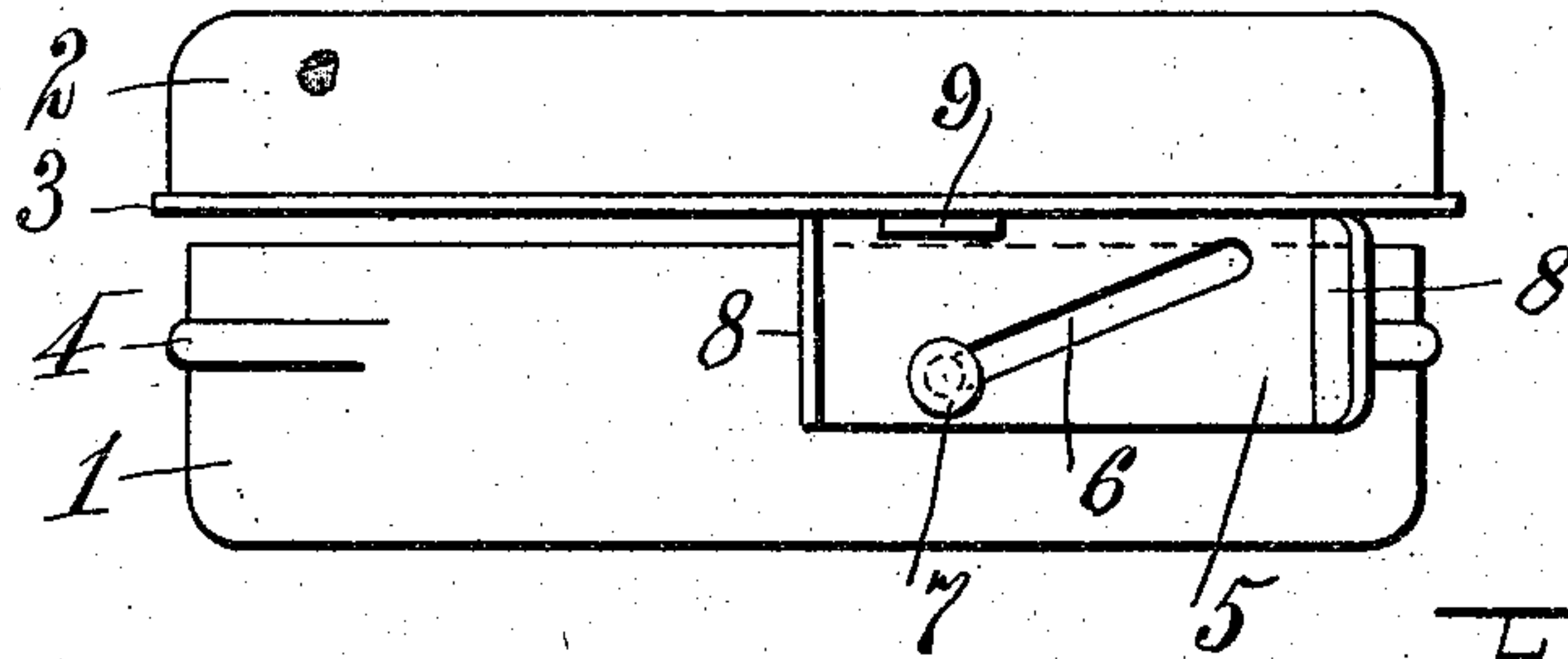


Fig. 2.

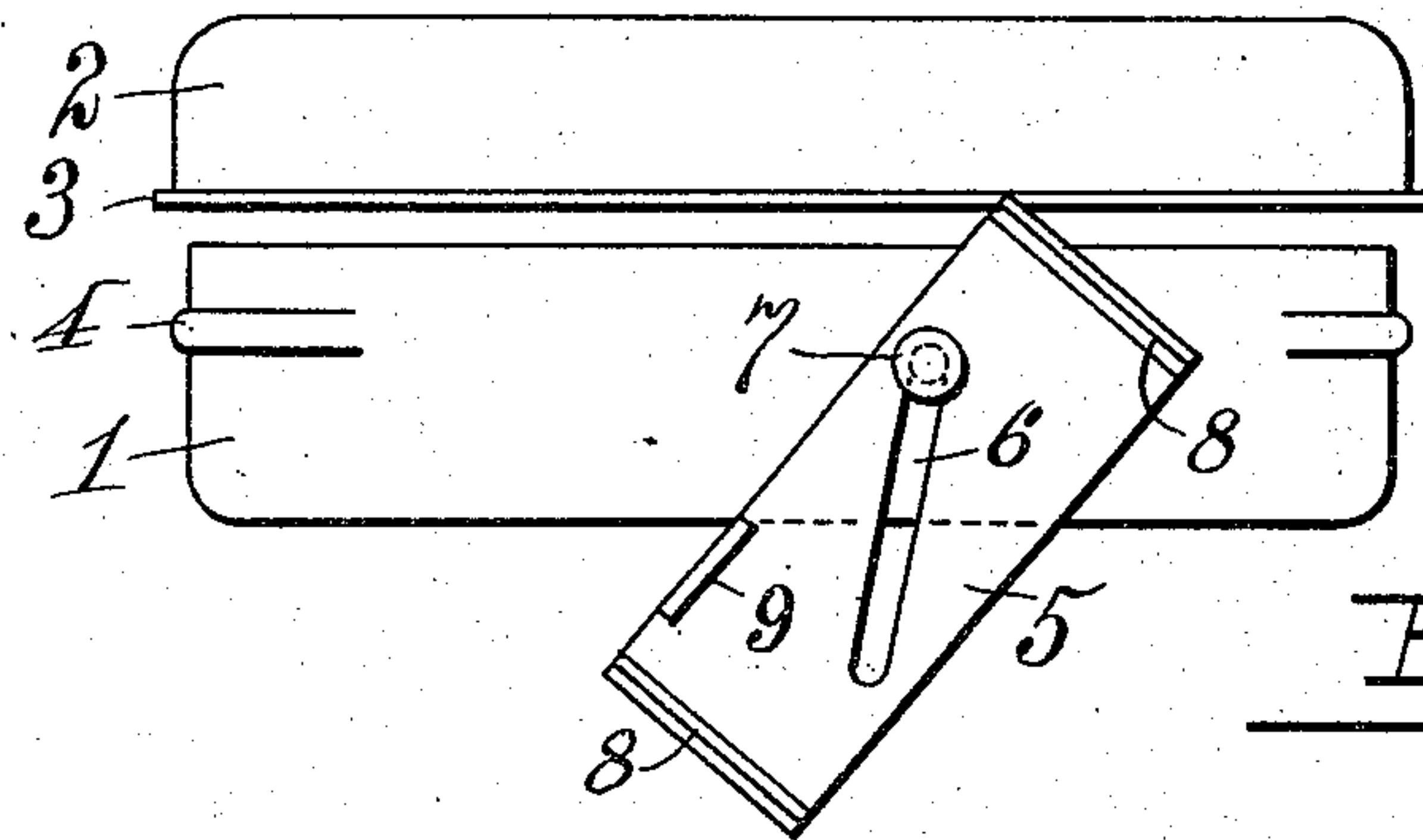


Fig. 3.

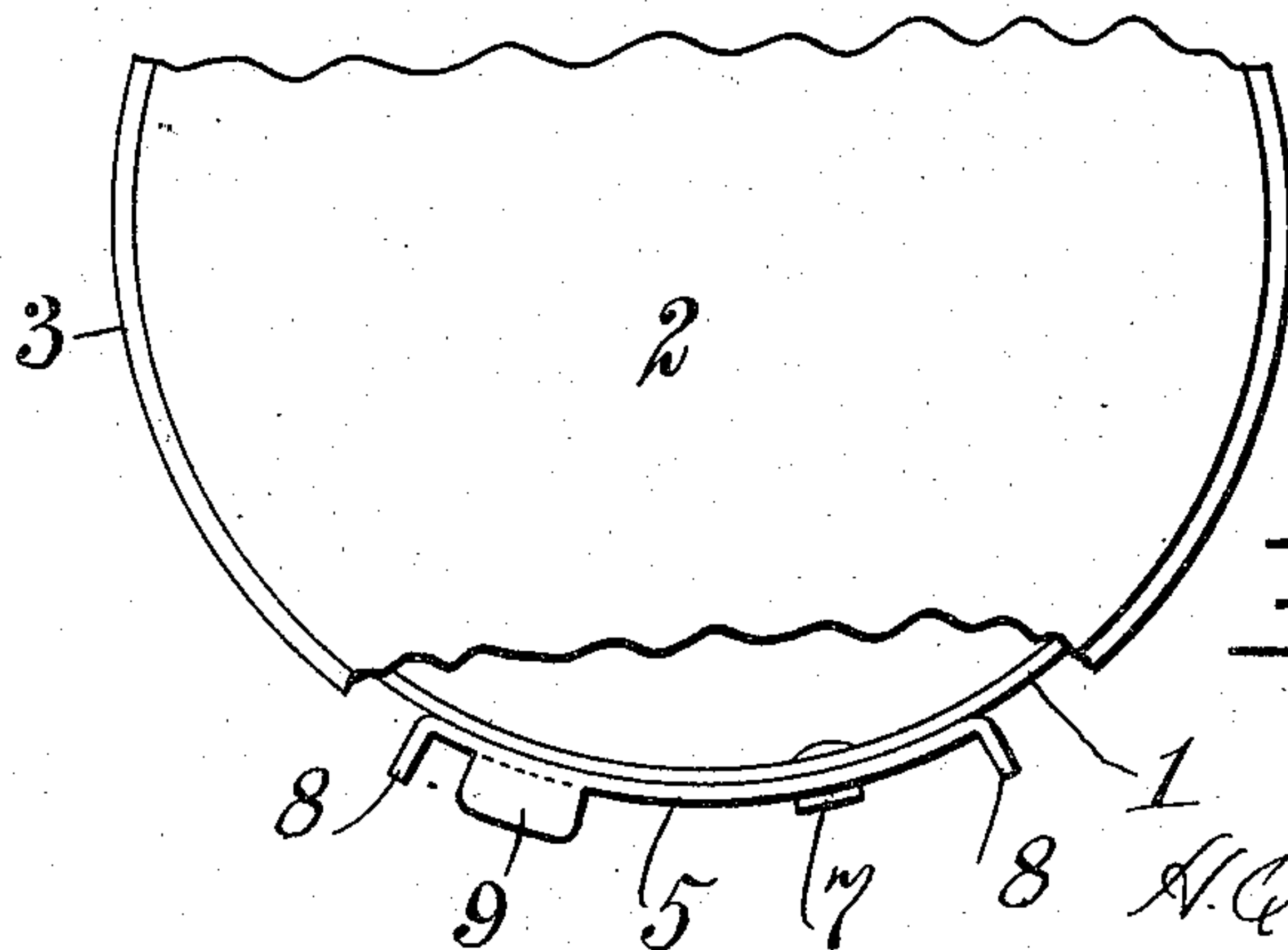


Fig. 4.

Witnesses
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UNITED STATES PATENT OFFICE.

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BOX-OPENER.

1,167,143.

Specification of Letters Patent.

Patented Jan. 4, 1916.

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To all whom it may concern:

Be it known that I, HORACE Q. ALEXANDER, a citizen of the United States, residing at Dayton, in the county of Montgomery and State of Ohio, have invented certain new and useful Improvements in Box-Openers; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in metal boxes of the round type and such as are employed for shoe polish and other substances.

The invention more specifically relates to a certain device for raising the lids of such boxes. As is well known, the lids of these boxes are made to fit tight in order to prevent evaporation or drying out of the contents. Therefore, much difficulty is frequently experienced in removing the lids. I am aware that heretofore certain devices have been employed for raising the lids of these boxes but I am not aware that a lid-raiser has heretofore been provided which operates in two distinct ways to raise the lid of a box.

The accompanying drawings are referred to in which—

Figure 1 is a side elevation of a circular box with the lid in place thereon and my improved lid-raiser applied to the side of the box; Fig. 2 is a similar view showing the lid raised from the box by a sliding movement of the lid-raiser; Fig. 3 is a similar view showing the lid raised from the box by a pivotal view of the lid-raiser; Fig. 4 is a top plan view of the box with the lid thereon, parts being broken away.

In the detailed description of the invention, similar reference characters are employed to denote the same or corresponding parts in the description and drawings.

The body of the box 1 as well as the top 2 constitutes a conventional form of metal box for containing shoe polish and a variety of other substances. The lid 2 is provided with an annular flange 3 which seats against an annular bead 4 when the lid and box are united. A portion of the bead 4 is

omitted from the body of the box in the application of the lid lifter. The latter consists of a metal plate 5 fitting against the side of the box and conforming to the contour of the box. The said lifter is secured to the box by means of a headed pin 7 which extends through a diagonally disposed slot 6 in the lifter. Both ends of the lifter 5 are turned outwardly to provide finger pieces 8 by which to manipulate the lifter by sliding it from the position shown in Fig. 1 to that shown in Fig. 2. It will be there noted that in thus sliding the lifter 5 to the length of the slot 6, the pin 7 reaches the bottom of the said slot and the lifter rises to the corresponding extent. It will be noted that the upper longitudinal edge of the lifter lies immediately below the cover flange 3 and that such movement of such lifter has the effect of elevating the cover. The upper edge of the lifter is also provided with a lip 9 extending outwardly which forms a finger hole to operate the lifter when the pin 7 serves as a pivot and has not moved out of the upper end of the slot 6. This method of operating the lifter is clearly illustrated in Fig. 3 where it will be seen that one end of said lifter engages the cover flange 3 and elevates the same when downward pressure is exerted upon the lip 9. Either method of raising the lid may be employed, that is to say, the said lid-raiser may be operated as a lever or as a slide and in either case the lid is effectively lifted.

I claim as my invention,

The combination with a box having a lid provided with a circumferential bead, of a lid-raiser comprising a rectangular plate, said plate being provided with an end marginal finger piece and a diagonal slot disposed longitudinally, and a pin uniting said plate to the outside of the box and extending through said slot said pin forming a supporting guide for the longitudinal movement of the plate or a pivot upon which said plate may be moved in raising the lid, substantially as described.

In testimony whereof I affix my signature, in presence of two witnesses.

HORACE Q. ALEXANDER.

Witnesses:

H. M. LEWIS,

MATTHEW SIEBLER.